

2

Docket No. MPS-411XC1  
Serial No. 09/334,163

D<sup>1</sup> of less than about 7.0%, a mean oleic acid content of at least 64.9%, and a mean linoleic acid content of 27.4% or less, by weight relative to the total fatty acid content of said seed.

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Claim 4

D<sup>2</sup> The assemblage of corn seeds according to claim 1, wherein said seeds are obtained from a plant or plants belonging to the LS0417 (ATCC Accession No. PTA-1397) corn line.

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Claim 5

D<sup>3</sup> The assemblage of corn seeds according to claim 1, wherein said seeds are obtained from a plant or plants belonging to the LS1498 (ATCC Accession No. PTA-1396) corn line.

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Claim 6

D<sup>4</sup> A corn plant, belonging to a corn line selected from the group consisting of LS0417 (ATCC Accession No. PTA-1397), LS1498 (ATCC Accession No. PTA-1396), LS288 (ATCC Accession No. PTA-3642), said plant producing seeds having a mean saturate content of less than about 7.0%, a mean oleic acid content of at least 64.9%, and a mean linoleic acid content of 27.4% or less, by weight relative to the total fatty acid content of said seeds.

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Claim 10

D<sup>5</sup> The corn plant according to claim 6, wherein said corn plant belongs to the LS0417 (ATCC Accession No. PTA-1397) corn line.

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Claim 11

D<sup>6</sup> The corn plant according to claim 6, wherein said corn plant belongs to the LS1498 (ATCC Accession No. PTA-1396) corn line.

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Claim 16

D<sup>7</sup> A method for producing low saturate corn material comprising the steps of:

(a) obtaining a plurality of corn seeds, from a plant or plants belonging to a corn line selected

from the group consisting of LS0417 (ATCC Accession No. PTA-1397), LS1498 (ATCC Accession No. PTA-1396), LS288 (ATCC Accession No. PTA-3642), said corn seeds having a mean saturate content of less than about 7.0%, a mean oleic acid content of at least 64.9%, and a mean linoleic acid content of 27.4% or less;

- Dn*
- (b) growing out said plurality of corn seeds to obtain a population of corn plants;
  - (c) intermating plants from said population to produce first seeds;
  - (d) subjecting said first seeds to selection based on saturate content, such that a predetermined saturate percentage of said first seeds is retained to obtain a group of selected seeds;
  - (e) growing said selected seeds into plants;
  - (f) intermating said plants to produce second seeds; and
  - (g) with said second seeds obtained, repeating steps (b), (c), (d), (e), and (f) at least once,
- whereby plants producing seeds that have a mean saturate content of less than about 7.0% by weight are obtained.
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Claim 18

The assemblage of corn seeds according to claim 1, wherein said seeds are obtained from a plant or plants belonging to the LS288 (ATCC Accession No. PTA-3642) corn line.

*D8* Claim 19

The corn plant according to claim 6, wherein said plant belongs to the LS288 (ATCC Accession No. PTA-3642) corn line.

Claim 20

The method according to claim 16, wherein said corn seeds are obtained from a plant or plants from the LS0417 (ATCC Accession No. PTA-1397) corn line.

Claim 21

The method according to claim 16, wherein said corn seeds are obtained from a plant or plants from the LS1498 (ATCC Accession No. PTA-1396) corn line.

4

Docket No. MPS-411XC1  
Serial No. 09/334,163Claim 22

D8 22. (amended) The method according to claim 16, wherein said corn seeds are obtained from a plant or plants from the LS288 (ATCC Accession No. PTA-3642) corn line.

[ Please add the following new claims: ]

Dn 23. A method for developing a corn plant in a corn plant breeding program using plant breeding techniques, which includes employing a corn plant, or its parts, as a source of plant breeding material, comprising:

obtaining a corn plant of claim 6, or parts of a corn plant of claim 6 as a source of said breeding material.

24. A method for producing a first generation hybrid maize seed comprising the steps of :  
crossing a plant according to claim 6 with a different inbred parent maize plant and  
harvesting the resultant first generation hybrid maize seed.

25. The method of claim 24, wherein the corn plant of claim 6 is the female or male parent.

26. An F1 hybrid seed produced by crossing a corn plant according to claim 6 with another,  
different corn plant.

27. An F1 hybrid plant, or parts thereof, grown from the seed of claim 26.

Please cancel claims 7-9, without prejudice.